indenter into the support surface, wherein the apparatus is mobile and includes manually actuated means for pressing the indenter into the support surface.

A1

3. (Amended) Apparatus according to claim 1 wherein the frame includes means for removable attachment to a bed base for supporting a mattress.

4. (Amended) Apparatus according to claim 2 wherein the frame is supported from a base member adapted to extend beneath a bed base, while said frame is adapted to extend in cantilever over a mattress supported on said bed base.

A2

5. (Amended) Apparatus according to claim 1 wherein said manually operated means comprises a handle for depressing the indenter into the support surface.

6. (Amended) Apparatus according to claim 1 wherein the indenter comprises a curved surface mounted for rotational movement on said frame.

7. (Amended) Apparatus according to claim 6 wherein the curved surface comprises a wheel or sphere.

8. (Amended) Apparatus according to claim 1 wherein the frame comprises a parallelogram linkage.

9. (Amended) Apparatus according to claim 1 wherein said data processing means includes means for assigning an identifying code to support surface to be tested and for preparing a label bearing said code and data relating to the behavior of the mattress when tested.

A2

10. (Amended) A method of testing a mattress in situ on a bed base which comprises applying to the surface of the mattress an indenter, depressing the indenter into the mattress, measuring the displacement of the indenter as a function of the load applied to the indenter, constructing a load/displacement curve and discriminating the displacement arising from deflection of the bed base to thereby identify the load/displacement relationship of the mattress.